

ABSTRACT OF THE DISCLOSURE

The scroll compressor includes a scroll compression mechanism portion in combination of an orbiting scroll and a fixed scroll, a frame for supporting the compression portion, a rotary shaft fitted in the orbiting scroll, a motor portion coupled to the rotary shaft, and a hermetic chamber incorporating the above-mentioned components. Windings of a stator of a motor in the motor portion are formed of aluminum wires which are coated with fluoro-resin compound, that is, the aluminum wires are coated with fluoro-resin and is molded with a resin material. Ammonia group refrigerant is used in the scroll compressor. Further, a refrigerating system using the above-mentioned scroll compressor, is incorporated therein with a circuit for injecting ammonia group refrigerant into a compression room in the compression mechanism portion.